

ABSTRACT OF THE DISCLOSURE

The present invention provides a rotor, a shaft or a sample holder for a centrifugal sintering system, and the present invention relates to a ceramic member for a centrifugal sintering system which is a member consisting of a rotor, a shaft or a sample holder for use in a centrifugal sintering system imparting a centrifugal force field and a temperature field to a molded body of ceramics or metal powder or a ceramic precursor film wherein a rotor for turning a sample holder, a shaft or a sample holder is composed of ceramics, to the ceramic member wherein the rotor which turns the sample holder is composed of conductive silicon carbide ceramics and the rotor alone is selectively caused to self heat by induction heating means to indirectly heat the sample, and to the ceramic member wherein the sample holder is composed of a material with a large dielectric loss and the sample holder alone is selectively heated using dielectric heating means to indirectly heat the sample.